#### SEQUENCE LISTING

#### (1) GENERAL INFORMATION:

- (i) APPLICANT: HU, JING-SHAN ROSEN, CRAIG A. CAO, LIANG
- (ii) TITLE OF INVENTION: VASCULAR ENDOTHELIAL GROWTH FACTOR 2
- (iii) NUMBER OF SEQUENCES: 15
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX
  - (B) STREET: 1100 NEW YORK AVENUE
  - (C) CITY: WASHINGTON
  - (D) STATE: DC
  - (E) COUNTRY: USA
  - (F) ZIP: 20005
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: TO BE ASSIGNED
  - (B) FILING DATE: HEREWITH
  - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: US 08/207,550
  - (B) FILING DATE: 8-MAR-1994
  - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: US 08/465,968
  - (B) FILING DATE: 06-JUN-1995
  - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: MARKOWICZ, KAREN R.
  - (B) REGISTRATION NUMBER: 36,351
  - (C) REFERENCE/DOCKET NUMBER: 1488.1000004
  - (ix) TELECOMMUNICATION INFORMATION:
    - (A) TELEPHONE: (202)371-2600
    - (B) TELEFAX: (202)371-2540
- (2) INFORMATION FOR SEQ ID NO:1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1674 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

(A) NAME/KEY: sig\_peptide
(B) LOCATION: 12..80

(ix) FEATURE:

(A) NAME/KEY: mat\_peptide
(B) LOCATION: 81..1268

(ix) FEATURE:

(A) NAME/KEY: CDS
(B) LOCATION: 12..1268

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:											
GTCCTTCCAC C	C ATG CAC TCC Met His Se: -23	G CTG GGC T1 r Leu Gly Ph -20	ne Phe Ser V	GTG GCG TGT TC /al Ala Cys Se -15	T CTG 50 r Leu						
CTC GCC GCT Leu Ala Ala -10	GCG CTG CTC Ala Leu Leu -5	CCG GGT CCT Pro Gly Pro	CGC GAG GC Arg Glu Al 1	CG CCC GCC GCC La Pro Ala Ala 5	GCC 98 Ala						
GCC GCC TTC Ala Ala Phe	GAG TCC GGA Glu Ser Gly 10	CTC GAC CTC Leu Asp Leu 15	ı Ser Asp Al	CG GAG CCC GAC La Glu Pro Asp 20	GCG 146 Ala						
GGC GAG GCC Gly Glu Ala 25	ACG GCT TAT Thr Ala Tyr	GCA AGC AAA Ala Ser Lys 30	A GAT CTG GA s Asp Leu Gl	AG GAG CAG TTA Lu Glu Gln Leu 35	CGG 194 Arg						
			Thr Val Le	TC TAC CCA GAA eu Tyr Pro Glu 50							
				GC TGG CAA CAT Ly Trp Gln His							
				AG ACT ATA AAA Lu Thr Ile Lys 85							
			e Leu Lys Se	GT ATT GAT AAT er Ile Asp Asn 100							
				GT ATA GAT GTG /s Ile Asp Val 115							
				AA CCT CCA TGT ys Pro Pro Cys 30							
				AG GGG CTG CAG Lu Gly Leu Gln							





1298

					Ser										ACA Thr	578
			TCT Ser 170												AAT Asn	626
			TGC Cys			_	-		-	-	-		-			674
			ATT Ile													722
			AAG Lys													770
			CTG Leu													818
			ACA Thr 250													866
			GAG Glu													914
			GGA Gly													962
			AAC Asn													1010
			AAC Asn													1058
			CTA Leu 330													1106
CCA Pro	CAG Gln	AAA Lys 345	TGC Cys	TTG Leu	TTA Leu	AAA Lys	GGA Gly 350	AAG Lys	AAG Lys	TTC Phe	CAC His	CAC His 355	CAA Gln	ACA Thr	TGC Cys	1154
			AGA Arg													1202
GGA Gly 375	TTT Phe	TCA Ser	TAT Tyr	AGT Ser	GAA Glu 380	GAA Glu	GTG Val	TGT Cys	CGT Arg	TGT Cys 385	GTC Val	CCT Pro	TCA Ser	TAT Tyr	TGG Trp 390	1250

CAA AGA CCA CAA ATG AGC TAAGATTGTA CTGTTTTCCA GTTCATCGAT

#### Gln Arg Pro Gln Met Ser 395

	395					
TTTCTATTAT	GGAAAACTGT	GTTGCCACAG	TAGAACTGTC	TGTGAACAGA	GAGACCCTTG	1358
TGGGTCCATG	CTAACAAAGA	CAAAAGTCTG	TCTTTCCTGA	ACCATGTGGA	TAACTTTACA	1418
GAAATGGACT	GGAGCTCATC	TGCAAAAGGC	CTCTTGTAAA	GACTGGTTTT	CTGCCAATGA	1478
CCAAACAGCC	AAGATTTTCC	TCTTGTGATT	TCTTTAAAAG	AATGACTATA	TAATTTATTT	1538
CCACTAAAAA	TATTGTTTCT	GCATTCATTT	TTATAGCAAC	AACAATTGGT	AAAACTCACT	1598
GTGATCAATA	TTTTTATATC	ATGCAAAATA	TGTTTAAAAT	AAAATGAAAA	TTGTATTTAT	1658
AAAAAAAA	AAAAA					1674
(2) INFORMA	ATION FOR SE	Q ID NO:2:				
(i)	(B) TYPE:	ARACTERISTI 'H: 419 amin amino acid OGY: linear	o acids			

# (ii) MOLECULE TYPE: protein

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met His Ser Leu Gly Phe Phe Ser Val Ala Cys Ser Leu Leu Ala Ala
-23 -20 -15 -10

Ala Leu Leu Pro Gly Pro Arg Glu Ala Pro Ala Ala Ala Ala Phe . -5 1 5

Glu Ser Gly Leu Asp Leu Ser Asp Ala Glu Pro Asp Ala Gly Glu Ala 10 15 20 25

Thr Ala Tyr Ala Ser Lys Asp Leu Glu Glu Glu Leu Arg Ser Val Ser 30 35 40

Ser Val Asp Glu Leu Met Thr Val Leu Tyr Pro Glu Tyr Trp Lys Met 45 50 55

Tyr Lys Cys Gln Leu Arg Lys Gly Gly Trp Gln His Asn Arg Glu Gln 60 65 70

Ala Asn Leu Asn Ser Arg Thr Glu Glu Thr Ile Lys Phe Ala Ala Ala 75 80 85

His Tyr Asn Thr Glu Ile Leu Lys Ser Ile Asp Asn Glu Trp Arg Lys 90 95 100 105

Thr Gln Cys Met Pro Arg Glu Val Cys Ile Asp Val Gly Lys Glu Phe
110 115 120

Gly Val Ala Thr Asn Thr Phe Phe Lys Pro Pro Cys Val Ser Val Tyr 125 130 135

Arg Cys Gly Gly Cys Cys Asn Ser Glu Gly Leu Gln Cys Met Asn Thr 140 145 150

Ser Thr Ser Tyr Leu Ser Lys Thr Leu Phe Glu Ile Thr Val Pro Leu 155 160 165

Ser Gln Gly Pro Lys Pro Val Thr Ile Ser Phe Ala Asn His Thr Ser 170 175 180 185

Cys Arg Cys Met Ser Lys Leu Asp Val Tyr Arg Gln Val His Ser Ile 190 195 200

Ile Arg Arg Ser Leu Pro Ala Thr Leu Pro Gln Cys Gln Ala Asn 205 210 215

Lys Thr Cys Pro Thr Asn Tyr Met Trp Asn Asn His Ile Cys Arg Cys 220 225 230

Leu Ala Gln Glu Asp Phe Met Phe Ser Ser Asp Ala Gly Asp Asp Ser 235 240 245

Thr Asp Gly Phe His Asp Ile Cys Gly Pro Asn Lys Glu Leu Asp Glu 250 265

Glu Thr Cys Gln Cys Val Cys Arg Ala Gly Leu Arg Pro Ala Ser Cys 270 275 280

Gly Pro His Lys Glu Leu Asp Arg Asn Ser Cys Gln Cys Val Cys Lys 285 290 295

Asn Lys Leu Phe Pro Ser Gln Cys Gly Ala Asn Arg Glu Phe Asp Glu 300 305 310

Asn Thr Cys Gln Cys Val Cys Lys Arg Thr Cys Pro Arg Asn Gln Pro 315 320 325

Leu Asn Pro Gly Lys Cys Ala Cys Glu Cys Thr Glu Ser Pro Gln Lys 330 335 340 345

Cys Leu Leu Lys Gly Lys Lys Phe His His Gln Thr Cys Ser Cys Tyr 350 355 360

Arg Arg Pro Cys Thr Asn Arg Gln Lys Ala Cys Glu Pro Gly Phe Ser 365 370 375

Tyr Ser Glu Glu Val Cys Arg Cys Val Pro Ser Tyr Trp Gln Arg Pro 380 385 390

Gln Met Ser 395

- (2) INFORMATION FOR SEQ ID NO:3:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1526 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (ix) FEATURE:
    - (A) NAME/KEY: sig\_peptide





(B) LOCATION: 71..142

(ix) FEATURE:

(A) NAME/KEY: mat\_peptide
(B) LOCATION: 143..1120

(ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: 71..1120

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CGAGGCCACG GCTTATGCAA GCAAAGATCT GGAGGAGCAG TTACGGTCTG TGTCCAGTGT	60
AGATGAACTC ATG ACT GTA CTC TAC CCA GAA TAT TGG AAA ATG TAC AAG  Met Thr Val Leu Tyr Pro Glu Tyr Trp Lys Met Tyr Lys  -24 -20 -15	109
TGT CAG CTA AGG AAA GGA GGC TGG CAA CAT AAC AGA GAA CAG GCC AAC Cys Gln Leu Arg Lys Gly Gly Trp Gln His Asn Arg Glu Gln Ala Asn -10 -5 1 5	157
CTC AAC TCA AGG ACA GAA GAG ACT ATA AAA TTT GCT GCA GCA CAT TAT Leu Asn Ser Arg Thr Glu Glu Thr Ile Lys Phe Ala Ala Ala His Tyr 10 15 20	205
AAT ACA GAG ATC TTG AAA AGT ATT GAT AAT GAG TGG AGA AAG ACT CAA Asn Thr Glu Ile Leu Lys Ser Ile Asp Asn Glu Trp Arg Lys Thr Gln 25 30 35	253
TGC ATG CCA CGG GAG GTG TGT ATA GAT GTG GGG AAG GAG TTT GGA GTC Cys Met Pro Arg Glu Val Cys Ile Asp Val Gly Lys Glu Phe Gly Val 40 45 50	301
GCG ACA AAC ACC TTC TTT AAA CCT CCA TGT GTG TCC GTC TAC AGA TGT Ala Thr Asn Thr Phe Phe Lys Pro Pro Cys Val Ser Val Tyr Arg Cys 55 60 65	349
GGG GGT TGC TGC AAT AGT GAG GGG CTG CAG TGC ATG AAC ACC AGC ACG Gly Gly Cys Cys Asn Ser Glu Gly Leu Gln Cys Met Asn Thr Ser Thr 70 75 80 85	397
AGC TAC CTC AGC AAG ACG TTA TTT GAA ATT ACA GTG CCT CTC TCT CAA Ser Tyr Leu Ser Lys Thr Leu Phe Glu Ile Thr Val Pro Leu Ser Gln 90 95 100	445
GGC CCC AAA CCA GTA ACA ATC AGT TTT GCC AAT CAC ACT TCC TGC CGA Gly Pro Lys Pro Val Thr Ile Ser Phe Ala Asn His Thr Ser Cys Arg 105 110	493
TGC ATG TCT AAA CTG GAT GTT TAC AGA CAA GTT CAT TCC ATT ATT AGA Cys Met Ser Lys Leu Asp Val Tyr Arg Gln Val His Ser Ile Ile Arg 120 125 130	541
CGT TCC CTG CCA GCA ACA CTA CCA CAG TGT CAG GCA GCG AAC AAG ACC Arg Ser Leu Pro Ala Thr Leu Pro Gln Cys Gln Ala Ala Asn Lys Thr 135	589
TGC CCC ACC AAT TAC ATG TGG AAT AAT CAC ATC TGC AGA TGC CTG GCT Cys Pro Thr Asn Tyr Met Trp Asn Asn His Ile Cys Arg Cys Leu Ala	637

150					155					160					165	
	GAA Glu															685
	TTC Phe															733
	CAG Gln															781
	AAA Lys 215															829
	TTC Phe															877
	CAG Gln															925
	GGA Gly															973
	AAA Lys															1021
	TGT Cys 295															1069
	GAA Glu															1117
AGC Ser	TAAC	SATTO	GTA (	CTGTT	TTTCC	CA GI	TCAT	CGAT	ттт	'CTAT	TAT	GGAA	AACI	GT		1170
GTT	GCCAC	CAG I	raga.	ACTGI	C TO	STGAA	CAGA	GAG	ACCC	TTG	TGGG	TCCA	TG C	TAAC	CAAAGA	1230
CAA	AAGTO	CTG I	гстта	CCTO	SA AC	CATO	TGGA	TAA	CTTI	'ACA	GAAA	TGGA	CT G	GAGO	TCATC	1290
TGC	AAAA	GC C	CTCTI	GTAA	AA GA	CTGG	TTTT	CTG	CCAA	TGA	CCAA	ACAG	CC P	AGAI	TTTCC	1350
TCTT	TGTGA	TT T	тстта	'AAAA'	AG AA	TGAC	TATA	TAA	ATTT	TTT	CCAC	TAAA	LAA I	ATTO	TTTCT	1410
GCAT	TCAT	TT I	TATA	AGCAA	AC AA	CAAT	'TGGT	' AAA	ACTO	ACT	GTGA	TCAA	TA I	TTTT	ATATC	1470
ATGO	CAAAA	T AT	GTTT	AAAA	AA TA	AATG	AAAA	TTG	TATT	TAT	AAAA	AAAA	AA A	AAAA	A	1526

## (2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 350 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Met Thr Val Leu Tyr Pro Glu Tyr Trp Lys Met Tyr Lys Cys Gln Leu -24 -20 -15 -10

Arg Lys Gly Gly Trp Gln His Asn Arg Glu Gln Ala Asn Leu Asn Ser
-5 1 5

Arg Thr Glu Glu Thr Ile Lys Phe Ala Ala Ala His Tyr Asn Thr Glu 10 15 20

Ile Leu Lys Ser Ile Asp Asn Glu Trp Arg Lys Thr Gln Cys Met Pro 25 30 35 40

Arg Glu Val Cys Ile Asp Val Gly Lys Glu Phe Gly Val Ala Thr Asn  $45 \hspace{1cm} 50 \hspace{1cm} 55$ 

Thr Phe Phe Lys Pro Pro Cys Val Ser Val Tyr Arg Cys Gly Gly Cys
60 65 70

Cys Asn Ser Glu Gly Leu Gln Cys Met Asn Thr Ser Thr Ser Tyr Leu 75 80 85

Ser Lys Thr Leu Phe Glu Ile Thr Val Pro Leu Ser Gln Gly Pro Lys 90 95 100

Pro Val Thr Ile Ser Phe Ala Asn His Thr Ser Cys Arg Cys Met Ser 105 110 115 120

Lys Leu Asp Val Tyr Arg Gln Val His Ser Ile Ile Arg Arg Ser Leu 125 130 135

Pro Ala Thr Leu Pro Gln Cys Gln Ala Ala Asn Lys Thr Cys Pro Thr 140 145 150

Asn Tyr Met Trp Asn Asn His Ile Cys Arg Cys Leu Ala Gln Glu Asp 155 160 165

Phe Met Phe Ser Ser Asp Ala Gly Asp Asp Ser Thr Asp Gly Phe His 170 175 180

Asp Ile Cys Gly Pro Asn Lys Glu Leu Asp Glu Glu Thr Cys Gln Cys 185 190 195 200

Val Cys Arg Ala Gly Leu Arg Pro Ala Ser Cys Gly Pro His Lys Glu 205 210 215

Leu Asp Arg Asn Ser Cys Gln Cys Val Cys Lys Asn Lys Leu Phe Pro 220 225 230

Ser Gln Cys Gly Alá Asn Arg Glu Phe Asp Glu Asn Thr Cys Gln Cys 245 245

Val Cys Lys Arg Thr Cys Pro Arg Asn Gln Pro Leu Asn Pro Gly Lys

Cys Ala Cys Glu Cys Thr Glu Ser Pro Gln Lys Cys Leu Leu Lys Gly 280

Lys Lys Phe His His Gln Thr Cys Ser Cys Tyr Arg Arg Pro Cys Thr 285

Asn Arg Gln Lys Ala Cys Glu Pro Gly Phe Ser Tyr Ser Glu Glu Val 300

Cys Arg Cys Val Pro Ser Tyr Trp Gln Arg Pro Gln Met Ser

- (2) INFORMATION FOR SEQ ID NO:5:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 196 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: not relevant
  - (ii) MOLECULE TYPE: protein
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Met Arg Thr Leu Ala Cys Leu Leu Leu Gly Cys Gly Tyr Leu Ala 1 5 10 15

His Val Leu Ala Glu Glu Ala Glu Ile Pro Arg Glu Val Ile Glu Arg  $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30$ 

Leu Ala Arg Ser Gln Ile His Ser Ile Arg Asp Leu Gln Arg Leu Leu 35 40 45

Glu Ile Asp Ser Val Gly Ser Glu Asp Ser Leu Asp Thr Ser Leu Arg 50 55 60

Ala His Gly Val His Ala Thr Lys His Val Pro Glu Lys Arg Pro Leu 65 70 75 80

Pro Ile Arg Arg Lys Arg Ser Ile Glu Glu Ala Val Pro Ala Val Cys 85 90 95

Lys Thr Arg Thr Val Ile Tyr Glu Ile Pro Arg Ser Gln Val Asp Pro 100 105 110

Thr Ser Ala Asn Phe Leu Ile Trp Pro Pro Cys Val Glu Val Lys Arg 115 120 125

Cys Thr Gly Cys Cys Asn Thr Ser Ser Val Lys Cys Gln Pro Ser Arg 130 135 140

Val His His Arg Ser Val Lys Val Ala Lys Val Glu Tyr Val Arg Lys 145 150 155 160

Lys Pro Lys Leu Lys Glu Val Gln Val Arg Leu Glu Glu His Leu Glu 165 170 175 Cys Ala Cys Ala Thr Thr Ser Leu Asn Pro Asp Tyr Arg Glu Glu Asp 185

Thr Asp Val Arg 195

## (2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 241 amino acids

  - (B) TYPE: amino acid(C) STRANDEDNESS: single
  - (D) TOPOLOGY: not relevant
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
- Met Asn Arg Cys Trp Ala Leu Phe Leu Ser Leu Cys Cys Tyr Leu Arg 10
- Leu Val Ser Ala Glu Gly Asp Pro Ile Pro Glu Glu Leu Tyr Glu Met
- Leu Ser Asp His Ser Ile Arg Ser Phe Asp Asp Leu Gln Arg Leu Leu
- His Gly Asp Pro Gly Glu Glu Asp Gly Ala Glu Leu Asp Leu Asn Met
- Thr Arg Ser His Ser Gly Gly Glu Leu Glu Ser Leu Ala Arg Gly Arg 70
- Arg Ser Leu Gly Ser Leu Thr Ile Ala Glu Pro Ala Met Ile Ala Glu
- Cys Lys Thr Arg Thr Glu Val Phe Glu Ile Ser Arg Arg Leu Ile Asp
- Arg Thr Asn Ala Asn Phe Leu Val Trp Pro Pro Cys Val Glu Val Gln 120
- Arg Cys Ser Gly Cys Cys Asn Asn Arg Asn Val Gln Cys Arg Pro Thr
- Gln Val Gln Leu Arg Pro Val Gln Val Arg Lys Ile Glu Ile Val Arg 150
- Lys Lys Pro Ile Phe Lys Lys Ala Thr Val Thr Leu Glu Asp His Leu 170
- Ala Cys Lys Cys Glu Thr Val Ala Ala Ala Arg Pro Val Thr Arg Ser
- Pro Gly Gly Ser Gln Glu Gln Arg Ala Lys Thr Pro Gln Thr Arg Val
- Thr Ile Arg Thr Val Arg Val Arg Arg Pro Pro Lys Gly Lys His Arg





-65-

210 215 220

Lys Phe Lys His Thr His Asp Lys Thr Ala Leu Lys Glu Thr Leu Gly 225 230 235

Ala

## (2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 232 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: not relevant
- (ii) MOLECULE TYPE: protein

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu 1 5 10 15

Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly 20 25 30

Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
35 40 45

Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu 50 55 60

Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu 65 70 75 80

Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro 85 90 95

Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His 100 105 110

Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys 115 120 125

Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Lys Ser Val 130 135 140

Arg Gly Lys Gly Lys Gly Gln Lys Arg Lys Arg Lys Ser Arg Tyr 145 150 155 160

Lys Ser Trp Ser Val Tyr Val Gly Ala Arg Cys Cys Leu Met Pro Trp 165 170 175

Ser Leu Pro Gly Pro His Pro Cys Gly Pro Cys Ser Glu Arg Arg Lys

His Leu Phe Val Gln Asp Pro Gln Thr Cys Lys Cys Ser Cys Lys Asn 195 200 , 205

Thr Asp Ser Arg Cys Lys Ala Arg Gln Leu Glu Leu Asn Glu Arg Thr

215

Cys Arg Cys Asp Lys Pro Arg Arg 225 230

(2) INFORMATION FOR SEQ ID NO:8:

		<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 14 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: not relevant</li> </ul>	
		(ii) MOLECULE TYPE: peptide	
1202			
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
		Pro Xaa Cys Val Xaa Xaa Arg Cys Xaa Gly Cys Cys Asn 1 5 10	
	(2)	INFORMATION FOR SEQ ID NO:9:	
ā1		<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 18 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
the first test from the first first first from the first first from the first from the first fir	٠.	(ii) MOLECULE TYPE: cDNA	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
	ATG	CTTCCGG CTCGTATG	18
	(2)	INFORMATION FOR SEQ ID NO:10:	
		<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 19 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
		(ii) MOLECULE TYPE: cDNA	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
	GGG	TTTTCCC AGTCACGAC	18
	(2)	INFORMATION FOR SEQ ID NO:11:	
		(i) SEQUENCE CHARACTERISTICS.	

(A) LENGTH: 21 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(ii) MOLECULE TYPE: cDNA

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	
	CGCGGATCCA TGACTGTACT CTACCCA	27
	(2) INFORMATION FOR SEQ ID NO:15:	
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 60 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	(ii) MOLECULE TYPE: cDNA	
Run of H is Run He san tank that	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15: CGCTCTAGAT CAAGCGTAGT CTGGGACGTC GTATGGGTAC TCGAGGCTCA TTTGTGGTCT	60
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ii Li		
The first from their form for		